

REVISIONS			
LTR	DESCRIPTION	DATE (YY-MM-DD)	APPROVED
—	PRODUCT BASELINE ERR AMG P9511	96-10-11	CD

NOTES:

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. DOD-STD-001000(AR)

INSTALLATION INSTRUCTIONS  
MODEL 242 TRANSFER CASE  
CONVERSION KIT

SECTION L INTRODUCTION

- 1-1. PURPOSE: THE PURPOSE OF THESE INSTRUCTIONS IS TO PROVIDE A PROCEDURE FOR REMOVAL OF THE MODEL 218 TRANSFER CASE AND INSTALLATION OF MODEL 242 TRANSFER CASE CONVERSION KIT ON M998 SERIES VEHICLES, EXCEPT M1097.

REV STATUS OF SHEETS		REV	—	—	—	—												
SHEET			1	2	3	4												

FPMC NA		CONTRACT NUMBER DAAE07-92-C-R010		U.S. ARMY TANK-AUTOMOTIVE COMMAND WARREN, MICHIGAN 48397-5000	
APPLICATION		CONTRACTOR AM GENERAL CORP. ENGINEERING & TECHNICAL SERVICES DIV. LYONIA, MICHIGAN			
NEXT AESSY	USED ON	DRAWN BY <i>[Signature]</i>	DATE (YY-MM-DD) 96-04-22	INSTALLATION INSTRUCTIONS, MODEL 242 TRANSFER CASE CONVERSION KIT 57K3498	
		CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i> 11 JUN 96		
	SERIES	DRAWING APPROVAL U.S. ARMY 96-10-31		SIZE A	CAGE CODE 19207
57K3498	M998	DESIGN APPROVAL <i>[Signature]</i> 96-11-1		12460332	
WATL E&GR D.F.	<i>[Signature]</i>			SCALE NONE	UNIT WT. ———
				SHEET 1 OF 4	

- 1-2. PRIOR TO INSTALLING THIS KIT, VEHICLES, SERIAL NUMBERS 1 THROUGH 44624 MUST BE RETRO FITTED WITH PARKING BRAKE KIT 5705614 (MWO 9-2320-280-35-1).

## SECTION II. CONVERSION KIT

- 2-1. NEW MATERIAL. CONVERSION KIT 57K3498 CONTAINS THE FOLLOWING ITEMS:

PART NO.	NOMENCLATURE	QTY.
12339049	SCREW	4
12339301	STRAP	2
12339978	CONNECTOR	1
12342618	DRIVESHAFT (MID)	1
12342788	LAMP ASSY	1
12342789	CABLE ASSY	1
12447113-1	DRIVESHAFT (REAR)	1
12447125	TRANSFER CASE (242)	1
12460332	INSTALLATION INSTRUCTIONS	1
12460333	INSTALLATION DRAWING	1
12460374	YOKE	1
12460375	SLINGER	1
12460376	NUT	1
MS3367-1-0	STRAP, TIEDOWN	4
MS21333-69	CLAMP	2
AA55610-45	LOCKWASHER	4
11501940	SCREW	1
164359	SCREW	2
444476	ELBOW	1

- 2-2. THE FOLLOWING MATERIAL IS REQUIRED, BUT NOT INCLUDED IN THE KIT:

PART NO.	NOMENCLATURE	QTY.
MIL-G-10924	GREASE (GAA)	A/R
51631	SEALING COMPOUND	A/R

- 2-3. EXISTING MATERIAL. ALL MATERIAL REMOVED AND NOT REUSED DURING INSTALLATION WILL BE RETURNED TO STOCK FOR DISPOSITION IN ACCORDANCE WITH AR 725-50.

## SECTION III. INSTALLATION PROCEDURE

- 3-1. VEHICLE PREPARATION

- A. PLACE VEHICLE ON JACK STANDS. (REFER TO TM 9-2320-280-20.)
- B. DRAIN TRANSFER CASE. (REFER TO TM 9-2320-280-20.)

INSTALLATION INSTRUCTIONS,  
MODEL 242 TRANSFER CASE  
CONVERSION KIT 57K3498

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- C. DISCONNECT BATTERY GROUND CABLES. (REFER TO TM 9-2320-280-20.)
- D. REMOVE MUFFLER SUPPORT BRACKET FROM TRANSFER CASE. (REFER TO TM 9-2320-280-20.)
- E. DISCONNECT FRONT MID-DRIVESHAFT FROM TRANSFER CASE. (REFER TO TM 9-2320-280-20.)
- F. REMOVE REAR DRIVESHAFT. (REFER TO TM 9-2320-280-20.) RETAIN U-BOLTS AND NUTS.

**NOTE**

STEP "G" APPLIES TO VEHICLES S/N 1 THROUGH 44824 ONLY.

- G. REMOVE COMPANION FLANGE AND PARKING BRAKE ROTOR. (REFER TO TM 9-2320-280-34.)
- H. REMOVE MODEL 218 TRANSFER CASE. (REFER TO TM 9-2320-280-34.)
- I. REMOVE SPEEDOMETER DRIVEN GEAR. (REFER TO TM 9-2320-280-20.)
- J. REMOVE FRONT MID DRIVESHAFT FROM FRONT SHAFT AND VEHICLE AS SHOWN IN FIGURE 1.

**3-2. MODEL 242 TRANSFER CASE INSTALLATION.**

- A. INSTALL SPEEDOMETER DRIVEN GEAR ON 12447125 TRANSFER CASE AS SHOWN IN FIGURE 2. (REFER TO TM 9-2320-280-20.)
- B. INSTALL 444476 ELBOW AND 12339978 CONNECTOR ON TRANSFER CASE AS SHOWN IN FIGURE 2. (REFER TO TM 9-2320-280-20.)
- C. INSTALL 12342618 FRONT MID DRIVESHAFT ON FRONT SHAFT AS SHOWN IN FIGURE 1.
- D. INSTALL TRANSFER CASE ON TRANSMISSION. (REFER TO TM 9-2320-280-34.)
- E. CUT 7 INCHES FROM END OF VENT HOSE BEFORE INSTALLING VENT HOSE ON TRANSFER CASE CONNECTOR AS SHOWN IN FIGURE 2.
- F. CONNECT FRONT MID DRIVESHAFT TO TRANSFER CASE WITH TWO EXISTING U-BOLTS, FOUR AA55610-45 LOCKWASHERS, AND EXISTING NUTS. (REFER TO TM 9-2320-280-20.)

**NOTE**

STEP "G" APPLIES TO VEHICLES S/N 1 THROUGH 44824 ONLY.

- G. INSTALL 12460376 SLINGER ON 12460374 YOKE AS SHOWN IN FIGURE 3 AND INSTALL ON REAR DIFFERENTIAL AND SECURE WITH 12460376 NUT. (REFER TO TM 9-2320-280-34.)
- H. INSTALL 12447113-1 REAR DRIVESHAFT IN TRANSFER CASE AND ON YOKE WITH TWO 12339301 STRAPS AND FOUR 12339049 SCREWS. (REFER TO TM 9-2320-280-20.)
- I. USING TWO EXISTING SCREWS ON TRANS SHIFT TOWER, LOCATE, MARK, AND DRILL 1.00-INCH DIAMETER HOLE IN CARGO FLOOR AS SHOWN IN FIGURE 4.
- J. USING HOLE DRILLED IN STEP "I" AS A REFERENCE, LOCATE, MARK, AND DRILL TWO 0.188-INCH DIAMETER HOLES IN CARGO FLOOR AS SHOWN IN FIGURE 4.
- K. INSTALL 12342788 LAMP ASSEMBLY WITH TWO 164359 SCREWS TO CARGO FLOOR AS SHOWN IN FIGURE 5.
- L. ROUTE 12342789 CABLE ASSEMBLY ALONG SPEEDOMETER CABLE AND CONNECT SINGLE LEAD 511A TO LAMP ASSEMBLY LEAD 511 AS SHOWN IN FIGURE 5.

INSTALLATION INSTRUCTIONS, MODEL 242 TRANSFER CASE CONVERSION KIT 57K3498	SIZE <b>A</b>	CAGE CODE <b>19207</b>	<b>12460332</b>		
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- M. CONNECT LAMP ASSEMBLY GROUND LEAD 57 TO REAR OF LEFT CYLINDER HEAD WITH 11501940 SCREW AS SHOWN IN FIGURE 5.
- N. CONNECT CABLE ASSEMBLY LEADS 511A AND 511B TO TWO TRANSFER CASE LEADS 511 AS SHOWN IN FIGURE 6.
- O. SECURE CABLE ASSEMBLY TO SPEEDOMETER CABLE AS NECESSARY WITH FOUR MS3367-1-0 TIEDOWN STRAPS AS SHOWN IN FIGURES 6 AND 9.
- P. DISCONNECT HARNESS LEAD 458A FROM TEMPERATURE SENDER LEAD 458 AS SHOWN IN FIGURE 7.
- Q. CONNECT HARNESS LEAD 458A TO CABLE ASSEMBLY LEAD 458C AS SHOWN IN FIGURE 8.
- R. CONNECT TEMPERATURE SENDER LEAD 458 TO CABLE ASSEMBLY LEAD 458D ON AS SHOWN IN FIGURE 8.
- S. USING EXISTING DIPSTICK BRACKET MOUNTING SCREWS, SECURE CABLE ASSEMBLY TO DIPSTICK BRACKETS WITH TWO MS21333-69 CLAMPS AS SHOWN IN FIGURE 9.

### 3-3. FINAL PREPARATION.

- A. INSTALL MUFFLER SUPPORT BRACKET ON TRANSFER CASE. (REFER TO TM 9-2320-280-20.)
- B. FILL TRANSFER CASE AND LUBRICATE DRIVESHAFTS. (REFER TO TM 9-2320-280-20.)
- C. CONNECT BATTERY GROUND CABLES. (REFER TO TM 9-2320-280-20.)
- D. REMOVE VEHICLE FROM JACK STANDS. (REFER TO TM 9-2320-280-20.)
- E. ROAD TEST VEHICLE. (REFER TO TM 9-2320-280-10.)

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—

SHEET 4

NOTES:

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. DOD-STD-001000(AR)
2. THIS DRAWING IS FOR INSTALLATION PURPOSES ONLY.  
ALL ITEMS MARKED \* ARE INCLUDED IN KIT.
3. CALLOUTS IDENTIFIED AS FOLLOWS:  
\* NEW PARTS  
# PARTS TO BE REMOVED AND DISCARDED  
Δ PARTS TO BE REMOVED AND REUSED  
⊕ PARTS TO BE REMOVED AND REWORKED

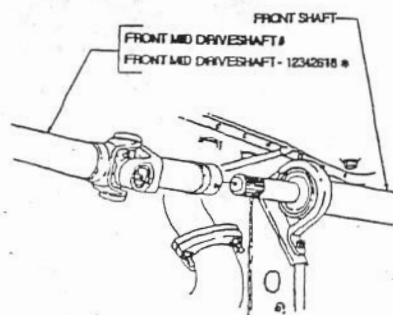


FIGURE 1

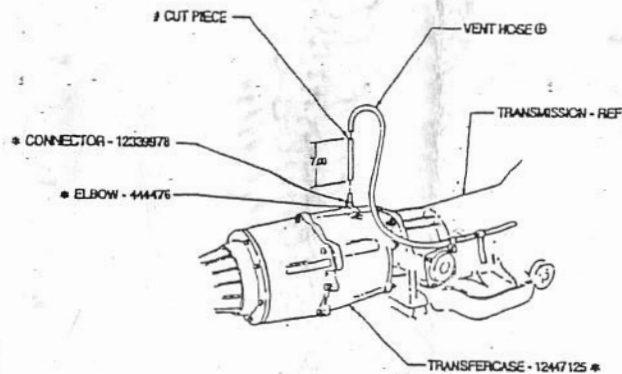


FIGURE 2

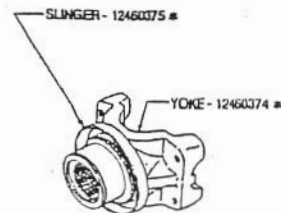


FIGURE 3

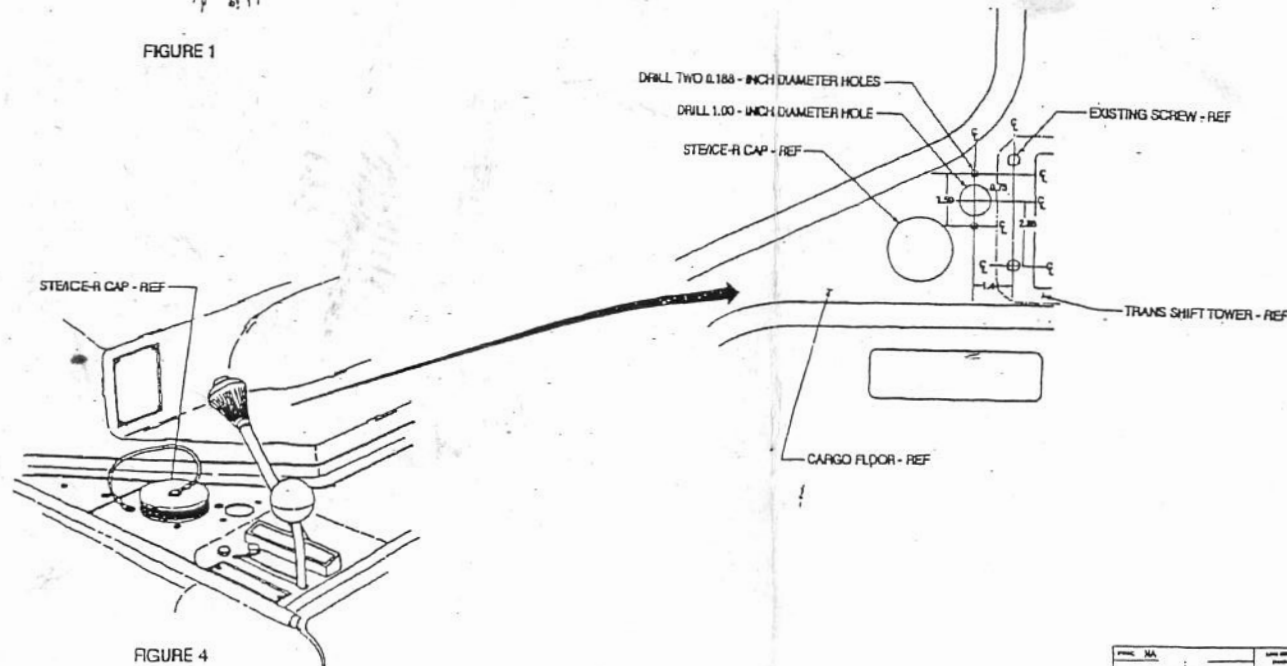


FIGURE 4

DATE	REV	DESCRIPTION	DATE	APPROVED
		PRODUCT BASELINE	06-10-11	
		ENR	AMG (MSG11)	#0

REVISION STATUS OF SHEETS
SHEET 2
SHEET 1

PART NO. 12460333	
U.S. ARMY TANK-AUTOMOTIVE COMMAND WATKINS, MISSISSIPPI 39176-0000	
INSTALLATION DRAWING MODEL 242 TRANSFER CASE CONVERSION KIT 57K3-681	
DATE 19207 E	PART NO. 12460333
SHEET 1 OF 2	



ALBUQUERQUE				
TIME	REF	DESCRIPTION	DATE	INITIALS
	—	PRODUCT BASELINE	96-10-11	
		ERR AMG P9511		C

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